

# **Guidance for Monthly Status Reviews (Templates & Samples)**

**Last updated: 10/7/04**

# IN GENERAL

- The chart descriptions and sample charts in this guidance package are tailored to Flight Projects in Phase C/D. It is recognized that there may be variations in the material presented for non-flight Projects and for Projects in Formulation. The essential contents, however, remain the same: Identification of key issues, PMC Action Status, plus Technical, Cost, and Schedule Status.
- The Monthly Status Review (MSR) charts described here are those required by the PMC. Individual Projects may have additional material or ad hoc topics they wish to present. It is essential that the scheduled times be observed, however. Requests for additional time should be made in advance.
- The next page summarizes the topics which should be included in the MSR packages, including the desired sequence. It should be noted that under certain circumstances, many of the charts which are usually in the Backup section are to be moved to the Main Section (see next page).
- Use Sentence Case throughout. Do not use all caps.
- The format of this guidance package is to provide a description of what is sought in the various chart types, followed by an illustrative sample chart(s).

# GSFC MSR CONTENT

## Main Section

- Title Page
- Fever Chart
- Issue Charts
- Risk Charts
- Significant Progress
- Status of all open PMC Actions
- Critical Milestones
- Schedule Slack & Estimate at Complete Trend Charts
- Contingency
- Reserves Summary (Cost, Schedule, Power, Mass)

## Backup

- Project Description Chart
- Master Schedule Chart (In Main Section if changed from last month)
- New Obligation Authority (In Main Section if changed from last month)
- Undefined Contract Actions (In Main Section if they're more than 180 days old)
- Other Contract Actions (In Main Section if they're more than 180 days old)
- Cost & Obligation Status (In Main Section if variances exceed 10%)
- Acronyms
- Executive Summary (Quad Chart) *New Requirement*

# ***Main Section***

# TITLE PAGE

- As a minimum, the Title Page should include the following information:
  - Project name and organizational code
  - Review name (Monthly Status Review)
  - Date
  - Names of key personnel
  - Major contractors
  - UPN numbers
- Black on white printing is preferred. (Some PMC members use the Title Page for note taking.)

# **MONTHLY STATUS REVIEW**

## **EOS ICE, CLOUD & LAND ELEVATION SATELLITE (ICESat) PROJECT**

**Code 425  
UPN 227-6**

<b>Project Scientist:</b>	<b>Dr. J. Zwally / 971</b>
<b>Project Manager:</b>	<b>James Watzin / 425</b>
<b>Deputy Project Manager:</b>	<b>Gregory Smith / 425</b>
<b>DPM / Resources:</b>	<b>Linda Greenslade / 425</b>
<b>Instrument Development:</b>	<b>Dr. J. Abshire / 924</b>
<b>Ground System Development:</b>	<b>ESDIS / 423</b>
<b>Spacecraft Contractor:</b>	<b>Ball</b>

**December 12, 2001**

# FEVER CHART

- The specifics of the Fever Chart will vary from project to project. However, the format should generally agree with the sample shown
- A legend and summary assessment should be provided at the bottom of the chart
- It should be possible to distinguish between the Red, Yellow, Green assessments on the black/white copies

# GLAST PROJECT SUMMARY

SEU/GLAST

8/31/04

## SPACECRAFT

	JUN	JUL	AUG
SYSTEMS			
GNC			
MECHANICAL			
ELECTRICAL			
COMM			
C & DH			
THERMAL			
PROPULSION			
GSE			

## INSTRUMENTS

	JUN	JUL	AUG
LAT SYSTEMS			
LAT TRACKER			
LAT CALORIMETER			
LAT ACD			
LAT MECHANICAL			
LAT ELECTRONICS/SW			
LAT BUDGET			
GBM TECHNICAL			
GBM PROGRAMMATIC			

## PROJECT

	JUN	JUL	AUG
MANAGEMENT			
MISSION SYS ENG			
PERF ASSURANCE			
EXT. INTERFACES			
CONTRACT			
TRAVEL			
C.S. STAFFING			
MOC			
ISOC			
GSSC			

## RESERVES

	JUN	JUL	AUG
SCHEDULE			
WEIGHT			
POWER			
BUDGET CONT.			

## LAUNCH VEHICLE

	JUN	JUL	AUG
VEHICLE			
ACCOMODATIONS			
LAUNCH SITE			

## SUMMARY ASSESSMENT

	JUN	JUL	AUG
TECHNICAL			
COST			
SCHEDULE			
OVERALL			

## LEGEND

	GOOD SHAPE
	MINOR PROBLEM
	MAJOR PROBLEM



# PROBLEMS/ISSUES CHART(S)

- Ideally there should be one Problems/Issues Chart for each non-green assessment on the Fever Chart
- Text changes should be underlined the first month they are shown
- Make sure the completion date is updated
- Shading or Crosshatching should be used when all or a part of an problem/issue is closed
- When a problem/issue is entirely resolved, it should be so indicated in the Current Status section, and the text in the upper portion of the chart should be shaded or crosshatched and the color indication shown as green. The chart should then be dropped from future packages. A few good examples follow.



# R&D BUDGET

## EOS AURA PROJECT

Aura Top Ten #2

STATUS AS OF: 11/30/01

PROBLEM / ISSUES	PROGRAMMATIC IMPACT	ACTION	DATE	
			ESTAB	COMPL
<b>R</b> <ul style="list-style-type: none"> <li>Aura Project contingency is not sufficient to cover costs for Aura launch slip.</li> <li>FY02 contingency will not be sufficient to cover anticipated instrument delivery delays.</li> </ul>	<ul style="list-style-type: none"> <li>Additional funds needed.</li> <li>Launch delay may make FY02 funds available by rephasing launch vehicle costs.</li> </ul>	<ul style="list-style-type: none"> <li>Pursue ways to reduce cost and schedule.</li> </ul>	09/01	11/01
		<ul style="list-style-type: none"> <li>Provide programmatic assessment to Code Y.</li> </ul>	09/01	11/01
		<ul style="list-style-type: none"> <li><u>Finalize replan</u></li> </ul>	<u>12/01</u>	<u>12/01</u>


### CURRENT STATUS

- Approximately \$60M will be needed in FY03 through FY05 to fund Aura launch delay to January 2004.
  - Rephased launch vehicle funds offset increases in instrument costs in FY02.
- Letter sent to US instrument providers to evaluate ways to reduce cost and schedule by reducing scope or performance.
- In response to request made to all EOS Projects, provided Code Y with a briefing paper and summary charts describing reasons for and impacts of delay in Aura launch readiness date.

# PEGASUS XL

**HESSI**

**STATUS AS OF: 01/28/02**

PROBLEMS/ISSUES	PROGRAMMATIC IMPACT	ACTION	DATE	
			ESTAB.	COMPL.
 <ul style="list-style-type: none"> <li>A National Missile Defense Vehicle with a similar solid fuel rocket as the Pegasus failed in December</li> </ul>	<ul style="list-style-type: none"> <li>Launch will be delayed if issue is not resolved</li> </ul>	<ul style="list-style-type: none"> <li>KSC will support the Mishap Investigation Board so Pegasus can return to a flight status as quickly as possible</li> </ul>	01/07/02	✓ 01/31/02

**CURRENT STATUS - CLOSED**

1/15 - A delta FRR is scheduled for January 22

**1/28 - Delta FRR returned Pegasus to a flight status**

# Spacecraft Transmitter/Receiver

**CHIPS**

**STATUS AS OF: 1/29/02**

PROBLEMS/ISSUES	PROGRAMMATIC IMPACT	ACTION	DATE	
			ESTAB.	COMPL.
<b>R</b> SpaceDev's contractor has failed to get Transmitter/Receiver to pass acceptance testing.	• CHIPS' Communications system is at risk	• Explorers to arrange for peer review of RF system, including Code 567, and consultants to assess RF system and recommend fixes	09/12/01	✓09/28/01
		• Code 567 to review RF system plan to complete	09/12/01	✓10/20/01
		• Code 567, RF consultant to assist SpaceDev and deliver Receiver/Trmtr to Spacecraft	09/12/01	<del>12/20/01</del> 02/15/02 03/05/02

## CURRENT STATUS - OPEN

- 1/2 - SpaceDev receiver to be delivered for testing on January 9<sup>th</sup>. The two commercial receivers to start testing at UCB on January 4, and all will be completed by January 14. Transmitter/Receiver to be delivered to S/C by 2/15/02.
- 1/14 - Two commercial receivers completed testing January 11. The SpaceDev receiver was not delivered. Have selected commercial unit (Mhiser), and once Trmtr delivered, will work SpaceDev receiver as backup.
- 1/29 - **Receiver under going Thermal Vacuum testing at UCB. Transmitter under development at SpaceDev.**

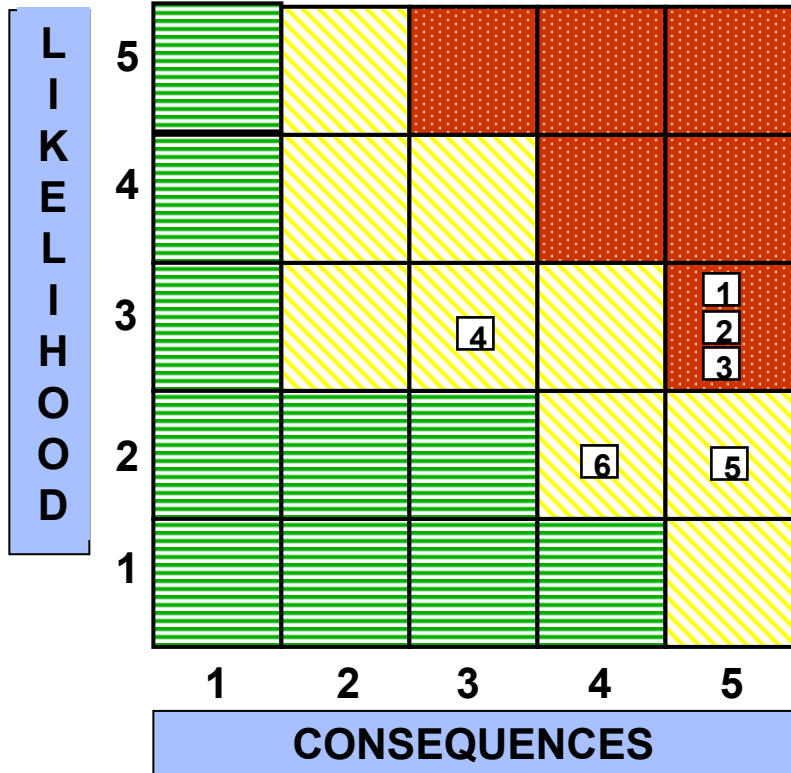
# RISK MATRIX CHART

- The top technical and programmatic risks of the Project should be identified in the 5x5 risk matrix format.
- Do not confuse risks with problems/issues from the previous section. Risks are the bad things that might happen. Problems/issues are things you are already dealing with.
- The number of identified risks will vary from Project to Project.



# Top Risk List

11/30/02

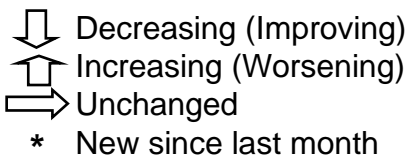


LxC Trend	Rank	Risk ID	Approach	Risk Title
↑	1	95	M	ΔII MECO Environment
→	2	80	M	AMSU-A Noise
→	3	102	M	NOAA-N Battery Availability – Launch '04
→	4	91	M	WR S/C to EEB Wiring
→	5	63	M	NOAA-N Battery Availability – Launch '03
↑	6	47	M	NOAA DCS Import From CNES

## Criticality



## L x C Trend



## Approach

M – Mitigate  
W – Watch  
A – Accept  
R - Research

# RISK FOCUS CHART

- This information only needs to be provided for those risks falling into the “Red” and “Yellow” areas of the Risk Matrix.
- The Risk Statement should be expressed as an “If/Then” statement.
- Underline any wording changes from the previous month.
- At the MSR, you need only speak to the new risks or to those that have changed since last month. (All Red & Yellow risks should be included in the charts, however.)



# RISK FOCUS

11/30/02



Rank	Risk ID	Risk Statement (Title & Detailed Description)	Approach & Plan	Comments/Status
1	95	<b>Delta II MECO 115 Hz LV Environment</b> - If NOAA-N/N' cannot withstand the new MECO vibrations at 115 Hz; the spacecraft and/or instruments will need to be redesigned	<b>Mitigate</b> - FEM updated to include 5-150 Hz frequency range. Low level sine-sweep completed on NOAA-N'. Preparing for Case 1 analysis	Analysis shows AMSU instruments to be most susceptible to high MECO environment
		<b>H</b>		
2	80	<b>AMSU-A Popcorn Noise</b> - If popcorn noise is an early indicator of a failure condition; AMSU-A instruments may need design changes	<b>Mitigate</b> - Engineering team established to investigate root cause and identify possible corrective action	Popcorn noise is short term, unexplained increases in counts in same channels
		<b>H</b>		

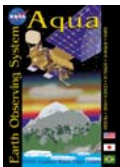
Risk Criticality





# SIGNIFICANT PROGRESS

- Summarize the major project accomplishments since the last MSR
- Be brief, keep the level of detail at an appropriate level. One chart should suffice.



# SIGNIFICANT PROGRESS

## ● Observatory I&T

- Spacecraft testing is continuing using Aura units.
- Re-torquing of ~1000 fasteners is on-going in conjunction with avionics rework.
- I/Q power ratio in one of our X-Band Modulators was tested by the manufacturer (Cincinnati Electronics) and no degradation was found. We will continue to watch.
- The Aqua Coarse Horizon Sensor Assembly (CHSA, aka Earth Sensor) was inadvertently damaged during I&T and has been removed from the spacecraft for inspection by the vendor. The Aura CHSA was installed as a placeholder to allow other testing to continue.

## ● Instruments

- Minor modifications (changing one resistor/one capacitor and adding a jumper) have been incorporated into CP-A and FR-A, which have been re-installed in MODIS. Mods to FR-B are complete and underway on CP-B. Both B-side cards will be reinstalled prior to start of the Pre-Ship CPT.
- Investigating scratches on HSB scanner. We have not determined the cause and/or completed our evaluation yet.

# PMC ACTION STATUS

- Use format shown to describe status of any open PMC Actions.
- Make sure Action Item number is identified in the “Action(s)” column
- If you believe an Action is closed, show it as such (recognizing that the PMC may or may not agree)
- If the PMC agrees that an Action is closed, it is no longer shown at future MSR's

# PMC Action Status

AQUA PROJECT

STATUS AS OF: 01/31/01

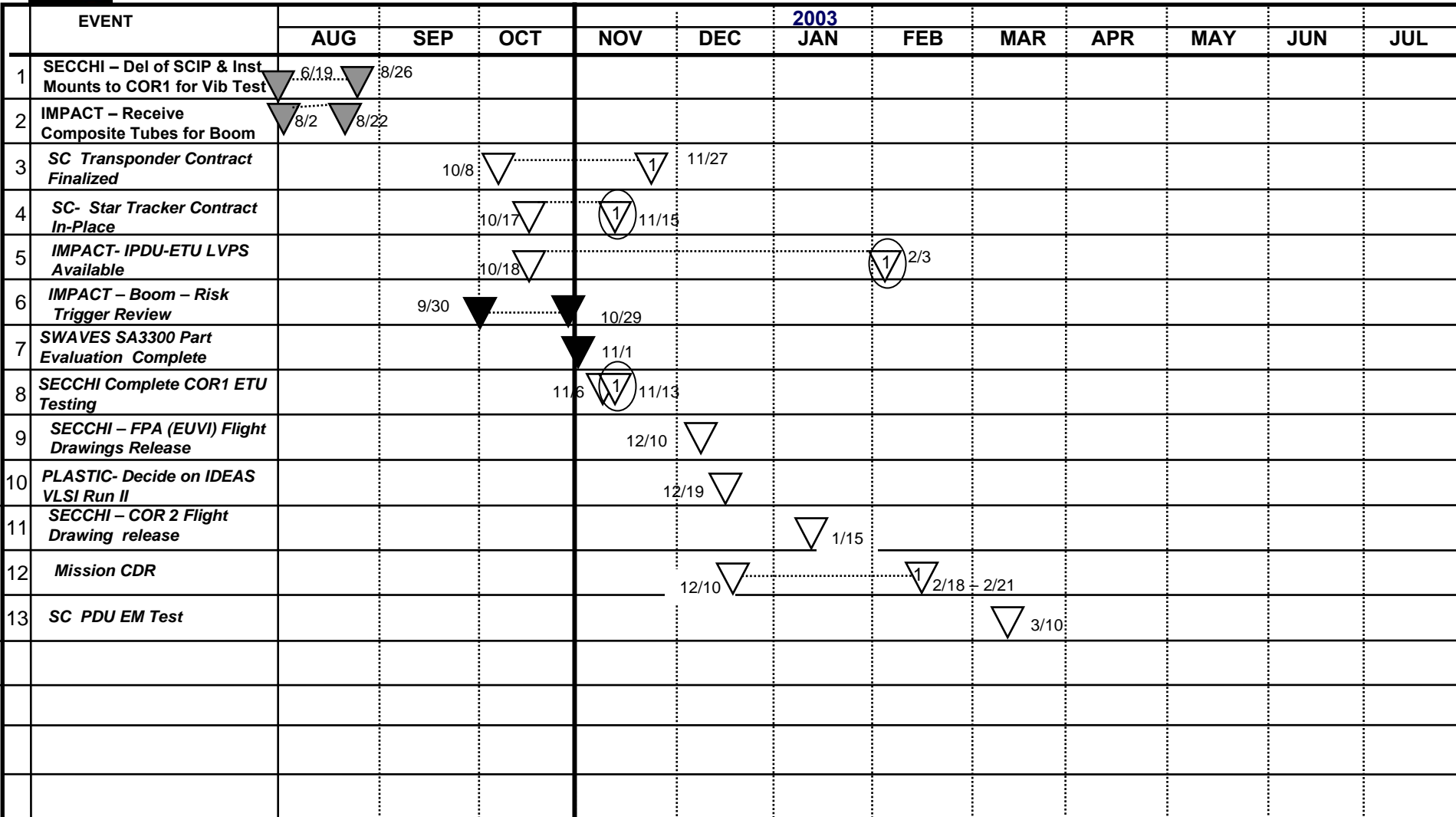
Date/Source	Action(s)	Status
11/15/00 MSR	<b>Action Item #14</b> Discuss with TRW the need to apply more resources from a corporate perspective.	<b>Closed:</b> TRW discussions documented in 11/24 email to Campbell
2/13/01 MSR	<b>Action Item #12</b> Have TRW create "Red Team" to review overall remaining testing program in terms of completeness, efficiency, etc	<b>Open:</b> Test review teams being formed

# CRITICAL MILESTONES

- The Critical Milestone chart should show the status of key milestones over a one-year period (nominally three months in the past, nine in the future)
- Milestones which have changed from the previous month should be circled
- Explanations for the milestones changed from the previous month should be provided (by line number) at the bottom of the page (or on a separate page if more room is needed)

# STEREO CRITICAL MILESTONE SCHEDULE

Status As Of: 11/7/02



4) Contract negotiations in progress. Kick off meeting held 10/30. Work proceeding at risk.

5) Incorporated actions from LVPC PEER Review. Board Fab Problems, workarounds in place.

8) Testing at the High Altitude Observatory (HAO) was delayed by bad weather. Testing to be completed by 11/13/02.

# TREND ANALYSES

- Annotated schedule slack and EAC trend analyses should be shown for key (spacecraft, instrument) hardware deliveries. These analyses should be shown for all spacecraft and instrument developments regardless of whether the Project is in the Formulation or Implementation Phase.
- Schedule slack should be shown in days in working days (as opposed to calendar days).
- For the slack trend, you must plot the slack itself (ie, not slack change). It would be useful to plot the “one month per year” standard for comparison (see STEREO example).
- For the EAC trend, you can plot either the EAC itself, or change in the EAC. In either event, the chart must indicate the original and current EAC.



# TREND ANALYSIS

ICESat PROJECT

STATUS AS OF: 1/31/01

Element: GLAS Instrument  
Developer: GSFC

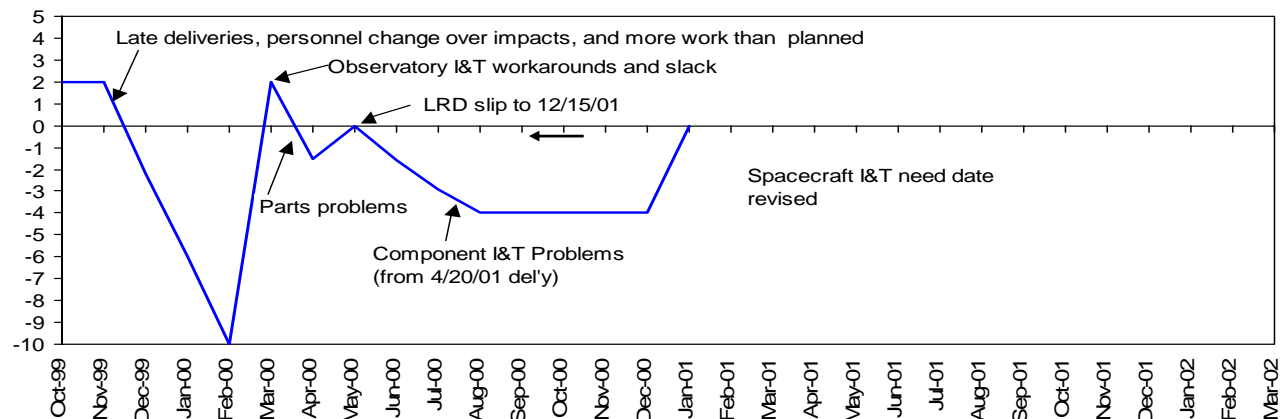
**Slack to  
S/C I&T  
Need Date  
(weeks)**

S/C I&T Need Date 6/18/01

Current Deliv Date 6/18/01\*

\*Includes 2 weeks recovery

## SLACK TREND ANALYSIS



## EAC TREND ANALYSIS

**Estimate  
at  
Completion  
CHANGE  
(\$M)**

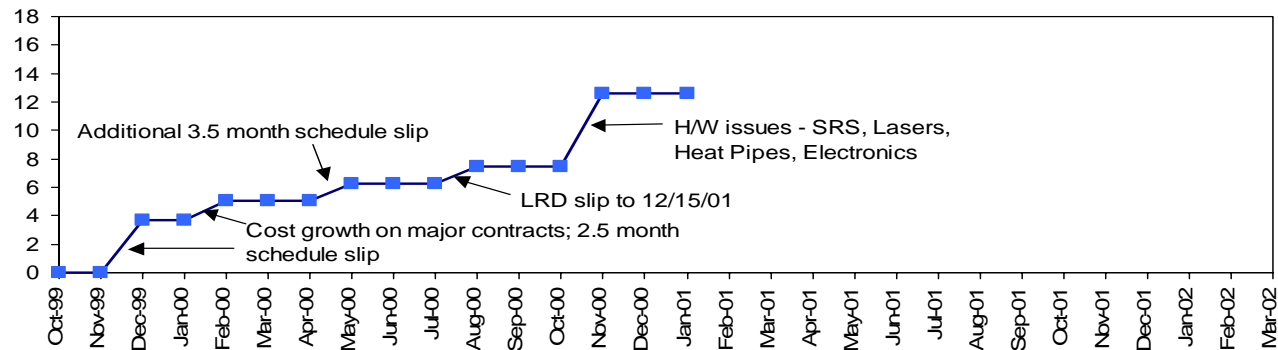
Initial Contract Value \*\$61.0

Current Contr Value \$ 71.9

Current Contr EAC \$ 73.6

Latest POP EAC \$ 67.3

\*Includes \$6M of FY97 and prior year spending

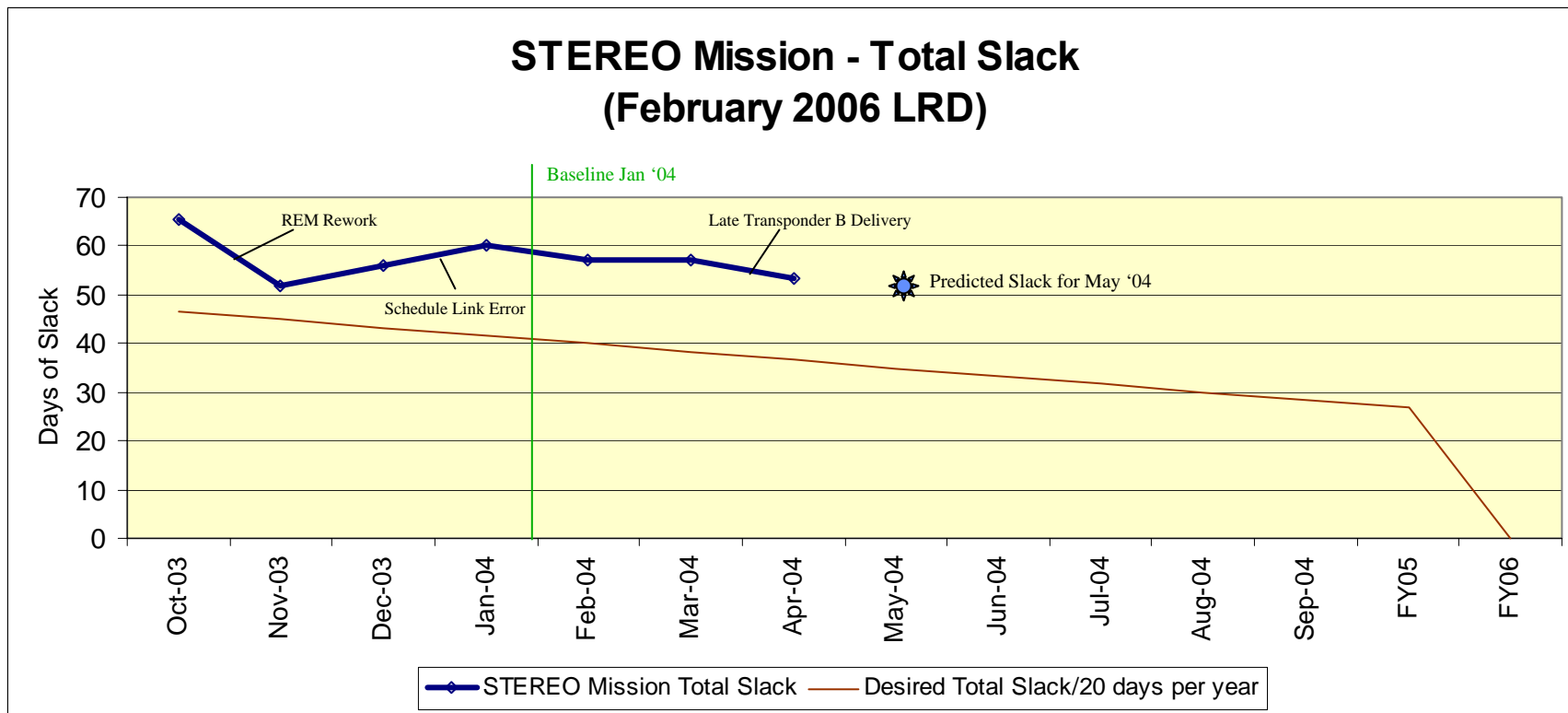






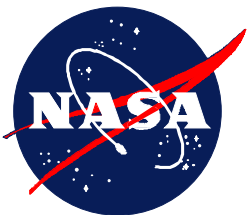
# Total Slack

Date: 06/09/04



# CONTINGENCY STATUS

- Show total contingency, encumbrances, contingency through encumbrances, liens, and contingency through liens by fiscal year



**PI-HELD RESERVE  
Contingency Status (\$K)  
As of December 31, 2001**

**Project:** CALIPSO (formerly PICASSO-CENA)  
**UPN:** 259-40  
**PCA:** 5SOMT

	FY	FY 02	FY 03	FY 04	FY 05	FY 06	FY07	TO COMP	TOTAL
CONTINGENCY NOA - POP 01-1		6,900	9,500	4,500	1,000	255			24,555
TOTAL NOA REQMT - POP 01-1		30,986	22,313	12,696	5,930	2,898	1,855		94,595
ENCUMBRANCES & OTHER CHANGES (After POP 01-1)		3,539	-	-	-	-	-	-	5,939
Ball Aerospace Termination Liability									2,000
Ball Aerospace Long-Lead Procurements for Lidar & WFC									400
payback of FY01 Increase to Cover Forward Funding		3,000							3,000
Laser Electronics Unit cost growth for Aug. & Sep. 2001		100							100
Criticality and Risk Assessment of Software at IV&V Fac.		74							74
Assessment of Orbital Dynamics Calculations		20							20
Software Support		114							114
LaRC Facility		3							3
Optical		20							20
GSE/EEE Parts		27							27
PMT		25							25
PMT Potting		6							6
OATS		150							150
TOTAL CONTINGENCY THROUGH ENCUMBRANCES		3,361	9,500	4,500	1,000	255	-	-	18,616
SUMMARY OF LIENS (Describe by element)		2,856	3,500	1,500	-	-	-	-	7,856
Schedule Reserve			3,500	1,500					5,000
Add'l LEU cost growth (Oct. 2001-Jan. 2002)		600							600
Program/Algorithm Development at Hampton U		1,000							1,000
Add'l IV&V		176							176
Spare Simulator		1,000							1,000
Add'l Criticality and Risk Assessment Analysis		80							80
TOTAL CONTINGENCY THROUGH LIENS		505	6,000	3,000	1,000	255	-	-	10,760

<b>CONTINGENCY ON COST-TO-GO:</b>	
TOTAL MISSION NOA (RQMTS.)*	120,948
LESS ACTUAL COSTS THRU 10/01	42,952
TOTAL COST-TO-GO	77,997
LESS TOTAL REMAINING CONTINGENCY	10,760
REMAINING COST-TO-GO	67,237
PERCENT CONTINGENCY-TO-GO	16.0%

NOTE: Total Mission NOA excludes launch vehicle.

# PROJECT RESERVES

- Use format shown on next page
- Explain deviation from nominal cost, schedule, mass, and power reserves in box at bottom of chart
- Nominal reserves are as follows:
  - Cost: 20%
  - Schedule: 1.0 month/year
  - Mass and Power margins:
    - Approximately 30% at PDR
    - Approximately 20% at CDR
    - Approximately 15% at PER
    - Approximately 10% at end of testing

## GALEX Project Reserves

12/31/01

**\*Cost:** 
$$\frac{\text{Unliened/unencumbered reserves}}{\text{Cost-to-Complete (w/o reserves)}} = \frac{\$1650\text{K}}{\$8426\text{K}} = 19.6\% \text{ Proposed}$$

**Schedule:** 
$$\frac{(\text{Unscheduled Months})}{\text{Year until launch}} = \frac{1.0 \text{ mos}}{.55 \text{ yrs}} = 1.81 \text{ mos/yr}$$

**Mass:** 
$$\frac{(\text{Allocated} - \text{Estimated})\%}{\text{Estimated}} = \frac{327\text{kg} - 286.5\text{kg}}{286.5\text{kg}} = \frac{40.5}{286.5} = 14.1\%$$

**Power:** 
$$\frac{(\text{Allocated} - \text{Estimated})\%}{\text{Estimated}} = \frac{316.5\text{w} - 274.9\text{w}}{274.9\text{w}} = \frac{41.6}{274.9} = 15.1\%$$

### Explanation of Deviations from “standard” reserves:

Cost: 20%.

Schedule: 1 month/year.

Mass & Power margins: 30% @ PDR, 20% @ CDR, 15% @ PER, 10% @ end of testing.

\*CTC and reserves based on CCR Exp – 008 approval; Reserves held in Explorers APA

# ***Samples of Backup Charts***



# Mission Description

**Aura Project**

**STATUS AS OF: 04/30/02**

**Mission Objective:** A 6-year mission to study the chemistry and dynamics of the Earth's atmosphere, with emphasis on the upper troposphere and lower stratosphere (5-20 km).

**Organizations:** Project Management: GSFC  
Spacecraft: TRW (EOS Common Spacecraft Contract)  
Instruments:  
Tropospheric Emission Spectrometer (TES) - JPL  
Microwave Limb Sounder (MLS) - JPL  
High Resolution Dynamics Limb Sounder (HIRDLS) -  
University of Colorado,  
Lockheed Martin Space Systems  
U.K.-Natural Environment Research Council  
Ozone Monitoring Instrument (OMI) -  
Netherlands Agency for Aerospace Programs (NIVR)  
Ground System: GSFC (ESMOS/ESDIS)

**Mission Description:** Orbit is a 98.2 degree sun synchronous polar orbit at 705 km. Mission design life is 5 years with an operational goal of 6. Spacecraft will have an ascending node equatorial crossing time of 1:45 PM. Observatory mass is 2872 kg (current estimate).

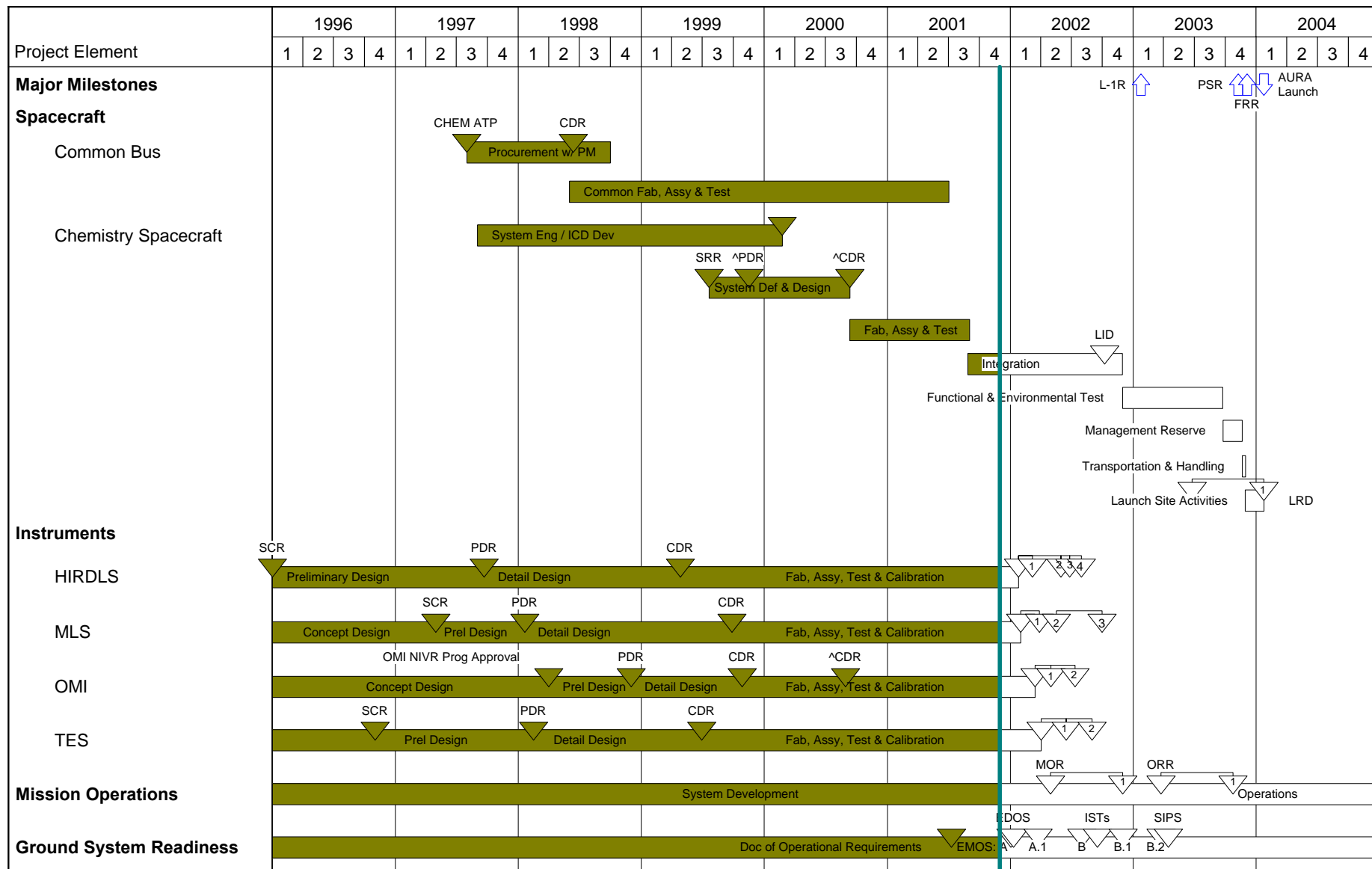
**Launch:** Launch is January 2004 from Vandenberg Air Force Base (Western Range) using a Delta II launch vehicle.

**Web site:** <http://aura.gsfc.nasa.gov>



# EOS Aura Project Code 424 Proposed Master Schedule

11/30/01





**POP 01-1**  
**NOA SUMMARY BY FISCAL YEAR**  
**(\$K)**

**PROJECT: EOS Aura - TOTAL BUDGET**  
**UPN: 228**

<u>R&amp;D ELEMENTS</u>	<u>PRIOR YRS</u>	<u>FY01</u>	<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>	<u>FY06</u>	<u>TO COMPL.</u>	<u>AT COMPL.</u>
HIRDLS	104,182	15,998	7,201	2,381	-	-	-	-	129,762
MLS	115,901	13,990	4,006	2,073	-	-	-	-	135,970
TES	121,122	17,521	7,168	3,365	-	-	-	-	149,176
SPACECRAFT	75,471	25,386	21,422	23,725	-	-	-	-	146,004
MPS	6,755	1,923	1,959	712	-	-	-	-	11,349
PROJECT SUPPORT	11,515	5,007	5,180	4,422	-	-	-	-	26,124
OPERATIONS CAPABILITY DEVL.	539	1,240	1,556	2,069	-	-	-	-	5,404
OMI IAM SUPPORT	4,743	2,159	1,062	1,058	-	-	-	-	9,022
LAUNCH VEHICLE	56	13,943	28,380	15,334	-	-	-	-	57,713
CONTINGENCY	-	991	1,995	3,719	-	-	-	-	6,705
EOS-G	1,864	536	509	268	100				3,277
JPL AWARD FEE	663	473	162	74					1,372
OTHER - HQ REQ, RSDO, AEROSPACE CONTRACT	8,889	300							9,189
TOTAL REQUIREMENTS	451,700	99,467	80,600	59,200	100	-	-	-	691,067

UPN 228

# UNDEFINITIZED CONTRACT ACTIONS

EOS AQUA/UPN 226

STATUS AS OF: 01/31/01

TARGET					
		DATE		DEFINITIZATION	
	CONTRACT	VALUE	ISSUED	DATE	STATUS
Bands 31-32 MOD 209	MODIS NAS5-30800 SBR5	NTE \$300K	9/8/00	1/31/01	Modification signed.
Aura added S/S Tests	TRW NAS5-32954	\$350K	7/26/00	1/31/01	Modification signed.
Risk Reduction	TRW NAS5-32954	\$15,162K	7/6/00	1/26/01	Modification signed.
Terra Launch Delay Impact	MODIS NAS5-30800 SBR5	\$1,496,541	4/9/00	3/9/01	Prenegotiation Plan being prepared.
Aqua Launch Delay Impact	MODIS NAS5-30800 SBR5	\$3,060,882	12/13/00	4/27/01	Proposal received in technical evaluation.
Aqua In-rush Automatic Test Sequence	MODIS NAS5-30800 SBR5	\$39,351	6/22/00	3/30/01	In prenegotiation.



# HST Procurement Office

Code 214.1

## Other Contract Actions Report $\geq 180$ Days

Program/ Project Name	Contract NAS5-	Contractor	Estimated Value (K)	Description	Date Issued	# of Days Since Issuance	Pending Action & Date
HST	99089	Ball Aerospace	\$2,000	COS: Late GFE Gratings	1/11/02	201	Award 8/28/02
			Total Actions =	1			
			Total Dollars =	\$2,000			

Note: Since these actions are more than 180 days old, this chart would be displayed in the main section of the MSR package.



# HST Procurement Office

Code 214.1

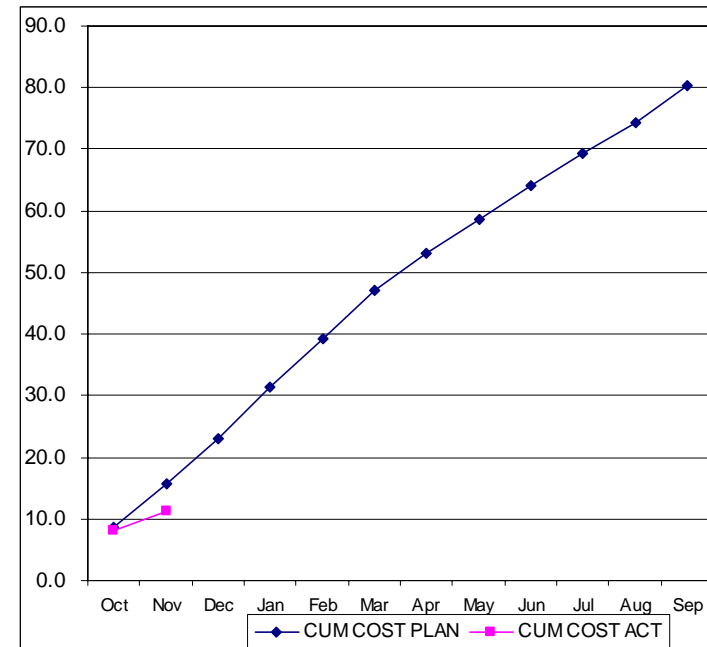
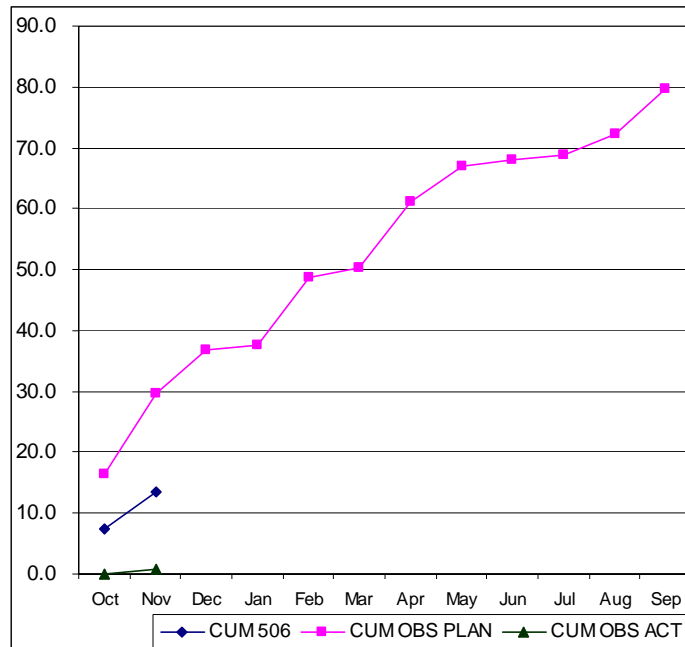
## Other Contract Actions Report < 180 Days

Program/ Project Name	Contract NAS5-	Contractor	Estimated Value (K)	Description	Date Issued	# of Days Since Issuance	Pending Action & Date
HST	98043	Univ. of Colorado	\$2,400	Launch Delay	4/04/02	118	Negotiations 8/16/02
	00190	Ball Aerospace	\$800	WFC3- GFE claim	4/18/02	104	Negotiations 8/19/02
	99089	Ball Aerospace	\$1,900	COS- Cost Growth	7/01/02	30	Pre-neg 8/23/02
	99089	Ball Aerospace	\$345	COS- Late GFE Detectors	6/17/02	44	Pre-neg 8/23/02
	00190	Ball Aerospace	\$745	WFC3- Cost Growth	7/11/02	20	Tech Eval 8/27/02
			Total Actions =	5			
			Total Dollars =	\$6,190			

**FINANCIAL STATUS REPORT  
AS OF NOVEMBER 2001**

**UPN 228**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
NOA	7.5	13.5										
Cum Obs Plan	16.5	29.8	36.7	37.5	48.7	50.4	61.3	67.1	68.2	68.8	72.2	79.5
Cum Obs Actual	0.0	0.7										
Cum Obs Delta	(16.5)	(29.1)										
Cum Cost Plan	8.5	15.7	22.9	31.4	39.2	47.0	53.1	58.6	64.1	69.4	74.3	80.4
Cum Cost Actual	8.2	11.3										
Cum Cost Delta	(0.3)	(4.4)										



UPN 228

# EOS AURA PROJECT FINANCIAL COST STATUS

UPN 228

DOLLARS IN MILLIONS  
STATUS AS OF: 11/30/01

ELEMENT	CUM PLAN	ACTUALS	DELTA	EXPLANATION AND PROGRAMMATIC IMPACT
HIRDLS	3.4	2.0	(1.4)	Over plan at end of FY01 to accommodate subsystem problem, therefore under FY02 plan.
SPACECRAFT	3.4	0.7	(2.8)	Correction for Special Studies inadvertently costed by both Aura and Aqua (\$2.5M); (\$.3M) under due to increased manpower to Aqua.
PROJECT SUPPORT	0.7	0.7	(0.0)	
OPS CAPABILITY DEV	0.2	0.1	(0.2)	
OM-HAM SUPPORT	0.2	0.1	(0.1)	
MPS	0.2	0.5	0.3	
CONTINGENCY	0.0	0.0	0.0	
EOS-G	0.0	0.0	(0.0)	
<b>TOTAL DIRECT</b>	<b><u>8.2</u></b>	<b><u>4.0</u></b>	<b><u>(4.2)</u></b>	
MLS	1.8	1.7	(0.1)	
TES	2.3	2.2	(0.1)	
<b>JPL PERF. CTR.</b>	<b>4.1</b>	<b>3.8</b>	<b>(0.2)</b>	
<b>KSC PERF. CTR.</b>	<b>3.4</b>	<b>3.4</b>	<b>0.0</b>	
<b>JSC PERF. CTR.</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	
<b>GRAND TOTAL</b>	<b><u>15.7</u></b>	<b><u>11.3</u></b>	<b><u>(4.4)</u></b>	
<b>OBLIGATIONS</b>	<b>29.8</b>	<b>0.7</b>	<b>(29.1)</b>	

**EOS AURA PROJECT**  
**FINANCIAL OBLIGATION STATUS**  
DOLLARS IN MILLIONS  
STATUS AS OF: 11/30/01

UPN 228

ELEMENT	CUM PLAN	ACTUALS	DELTA	EXPLANATION AND PROGRAMMATIC IMPACT
HIRDLS	2.0	-	(2.0)	Funding processed 11/14- \$2.5M, not showing on November report, but in first group in December report.
SPACECRAFT	6.0	-	(6.0)	Due to continuing resolution 506 not available until mid-November, \$1.0M currently committed with new 506.
PROJECT SUPPORT	0.8	0.1	(0.7)	Chargebacks mistakenly charged to FY01 instead of FY02, currently being corrected.
OPS CAPABILITY DEV	0.2	0.1	(0.1)	Chargebacks mistakenly charged to FY01 instead of FY02, currently being corrected.
OMHAM SUPPORT	0.2	0.1	(0.1)	Chargebacks mistakenly charged to FY01 instead of FY02, currently being corrected.
MPS	0.1	0.4	0.3	
CONTINGENCY	-	-	-	
EOS-G	0.5	0.0	(0.5)	Due to continuing resolution 506 not available until mid-November, \$.5M currently committed with new 506.
<b>TOTAL DIRECT</b>	<b>9.8</b>	<b>0.7</b>	<b>(9.1)</b>	
MLS	2.0	-	(2.0)	Additional forward funding provided with FY01 funds; Suballotment \$1.5M issued on Nov. 19th
TES	4.0	-	(4.0)	Additional forward funding provided with FY01 funds; Suballotment \$1.5M issued on Nov. 19th
<b>JPL PERF. CTR.</b>	<b>6.0</b>	<b>-</b>	<b>(6.0)</b>	
<b>KSC PERF. CTR.</b>	<b>14.0</b>	<b>-</b>	<b>(14.0)</b>	Due to continuing resolution 506 not available until mid-November, \$1M currently committed with new 506.
<b>JSC PERF. CTR.</b>	<b>-</b>	<b>-</b>	<b>-</b>	
<b>GRAND TOTAL</b>	<b><u>29.8</u></b>	<b><u>0.7</u></b>	<b><u>(29.1)</u></b>	

UPN 228

# ACRONYMS

AQUA PROJECT

STATUS AS OF: 01/31/01

<b>ACE</b>	<b>Array Clamp Electronics</b>
<b>ADM</b>	<b>Actuator Drive Mechanism</b>
<b>AEB</b>	<b>Brazilian Space Agency</b>
<b>AIRS</b>	<b>Atmospheric Infrared Sounder</b>
<b>AMSR</b>	<b>Advanced Microwave Scanning Radiometer</b>
<b>AMSU-A</b>	<b>Advanced Microwave Sounding Unit-A</b>
<b>AMSU-B</b>	<b>Advanced Microwave Sounding Unit-B</b>
<b>APA</b>	<b>Allowance for Programmatic Adjustment</b>
<b>ATBD</b>	<b>Algorithm Theoretical Basis Document</b>
<b>CAN</b>	<b>Cooperative Agreement Notice</b>
<b>CDR</b>	<b>Critical Design Review</b>
<b>CDA</b>	<b>Critical Design Audit</b>
<b>CERES</b>	<b>Clouds and Earth's Radiant Energy System</b>
<b>CTC</b>	<b>Cost to complete</b>
<b>DOD</b>	<b>Depth of Discharge</b>
<b>DRO</b>	<b>Di-electric Resonating Oscillator</b>
<b>DPA</b>	<b>Destructive Parts Analysis</b>





# Project Name

Date

## Progress/Accomplishments

- Completed NIRCcam Replan Change Order and NGST and ST ScI Replan negotiations
- Conducted successful PMSA Preliminary Design Audit and WFS&C Mini-PIT Meeting
- Reexamining I&T facility alternatives to Plum Brook baseline
- Proceeding with LV planning leading to interface discussions with ESA in late September

## Issues

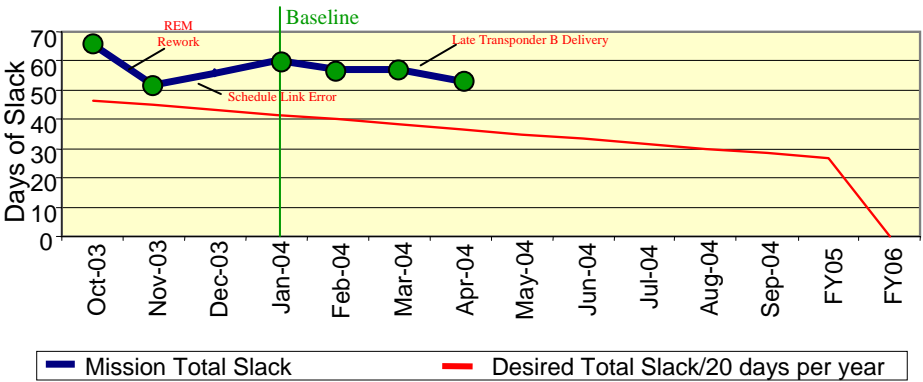
- Analysis of the failure of the beryllium billet for flight PM segments 1 & 2 during HIP processing is continuing; production started early, therefore no impact on overall schedule
- Analysis of the failure of the beryllium billet for flight PM segments 1 & 2 during HIP processing is continuing; production started early, therefore no impact on overall schedule
- Still more stuff that's broken and needs to be described in this section.

## Risks

LXC Trend	Rank	Likelihood	Consequence	Approach	Risk Title
➡	1	4	4	M	Beryllium Mirror Fab Schedule
➡	2	4	4	M	Wavefront Sensing & Control (WFS&C)
➡	3	3	4	M	Beryllium Mirror Performance
➡	4	2	6	M	Interagency approval of Ariane 5
➡	5	3	3	W	Plum Brook Sustainability

## Total Slack

(February 2006 LRD)



## Cost Reserves

